

Gregory Biddinger

Gregory Biddinger is an aquatic ecotoxicologist and Environmental Sciences Advisor with ExxonMobil Refining & Supply Company. In his current position he is responsible for developing business planning processes to improve environmental performance, participating in the creation of international standards on environmental management and providing leadership and technical support to business lines on wildlife conservation initiatives. In addition to the SAB he has been active in numerous SETAC expert panels and OECD peer reviews. His many other professional activities include chairmanship of American Society for Testing and Materials, Chemical Manufacturers Association and ISO technical committees. He is currently the Chair of the SETAC Ecological Risk Assessment Advisory Group. He has published broadly in the area of aquatic toxicology on inorganic Arsenicals, Phthalate Esters, chemical dispersants, and the use of microcosms in estimation of tropic transfer of contaminants. Dr. Biddinger has also published or edited proceedings on Ecological risk assessment and risk management, including such topics as the ecological risks of contaminated sediments, decision support systems, sustainable environmental management and integrated environmental decision-making. His current technical and policy focus is improving the utility of environmental science to make effective and sustainable environmental management decisions. He reports no other sources of funding. Dr. Biddinger has been reappointed to a second term on EPEC, ending 9/04.

Virginia Dale

Virginia Dale is a landscape ecologist at Oak Ridge National Laboratory and adjunct faculty member in the Department of Ecology and Evolutionary Biology at the University of Tennessee. Dr. Virginia H. Dale's primary research interests are in environmental decision making, forest succession, land-use change, landscape ecology, and ecological modeling. She has worked on developing tools for land management, vegetation recovery following the eruption of Mount St. Helens; forest development subsequent to insect outbreaks, fires, windthrows, and clear-cutting; effects of air pollution and climate change on forests; tropical deforestation in southeast Asia and the Brazilian Amazon; and integrating socioeconomic and ecological models of land-use change. Dr. Dale serves on the Science Advisory Board for the Grand Canyon Monitoring and Research Center, the Committee on Ecological Effects of Road Density of the National Academy of Sciences, and the US Scientific Committee for Problems of the Environment. She is also a member of the Department of Defense's Strategic Environmental Research and Development Program's Ecosystem Management Project. Dr. Dale has served on the National Academy of Sciences Ecosystems Panel, the "Committee of Scientists" appointed by the Secretary of Agriculture, and the Ecosystems Panel which reviews proposals submitted to the National Science Foundation (NSF). She was Chair of the US Regional Association of the International Association for landscape and has been on the Governing Board of the Ecological Society of America. She is currently on the editorial board for the journals Ecological Economics, Ecological Indicators, and Landscape Ecology. She is also the Editor-in-Chief of Environmental Management. Dr. Dale has served on various committees of the SAB, including approximately 5 years as a member of EPEC and several years on the RSAC. She received her Ph.D. from the University of Washington in mathematical ecology. Funding is derived from the U.S. Department of Defense. Her current term as chair of the EPEC expires 11/03.

Ivan Fernandez

Ivan Fernandez, is a professor and forest soils scientist at the University of Maine, Orono. He chairs the Department of Plant, Soil, and Environmental Sciences. His expertise is in nutrient and metal cycling in forested ecosystems, particularly in soil biogeochemical responses to ecosystem disturbance. He publishes regularly in professional journals on a multi-media range of subjects pertaining to forest ecology including soil biogeochemistry, fire ecology, nutrient cycling in soil and water, watershed processes and soil microbial ecology. He has also published numerous technical reports, book chapters, and a book. He is a member of numerous professional organizations such as the Society of American Foresters, Soil Science Society of America, National Association of Environmental Professionals and the Soil and Water Conservation Society. He serves as a member of the national Council of Soil Science Examiners, the Maine Board of Certification for Professional Geologists and Soil Scientists, and is responsible for oversight of the long-term whole ecosystem research program at the Bear Brook Watershed in Maine. His research interests are in atmospheric deposition and climate change effects on forested ecosystems and watershed processes, as well as the ecological impact of residuals utilization in forests. Current research projects include studies of long-term watershed acidification, base cation depletion, nitrogen saturation, municipal residuals utilization in forests, and the effects of fire and climate on mercury and nitrogen dynamics. His advanced degrees are in soil chemistry and forest resources from the University of Maine. Funding sources include support from the U.S. Department of Agriculture; U.S. National Science Foundation; U.S. Environmental Protection Agency; U.S. National Park Service; Soil Preparations, Inc. and International Paper, Inc. Dr. Fernandez was reappointed to a second term on the EPEC, ending 10/03.

Cindy Gilmour

Cindy Gilmour, is Curator of the Academy of Natural Sciences, Estuarine Research Center in St. Leonard, MD. Academy of Natural Sciences in Maryland. Dr. Gilmour has expertise in Mercury biogeochemistry: mechanisms and control of microbial mercury methylation from the cellular to ecosystem level; Sulfate-reducing bacteria and sulfur biogeochemistry in aquatic sediments; Estuarine and lacustrine microbial ecology; and response to stressors. Dr. Gilmour is extensively published, active in numerous professional associations including the American Association for the Advancement of Science, American Chemical Society (Geochemistry and Environmental Chemistry Divisions), American Society for Microbiology (Microbial Ecology), and American Society of Limnology and Oceanography. In addition to the SAB, Dr. Gilmour has been an active participant in numerous advisory capacities including NSF Environmental Geochemistry and Biogeochemistry Review Panel, the States of Florida and Maryland, and the USGS. She received her Ph.D. from the University of Maryland in Marine, Estuarine and Environmental Sciences. Dr. Gilmour reports sources of funding from the EPA/STAR program, Florida Department of Environmental Protection, and the CALFED Bay Delta Program (federal and state agencies around San Francisco Bay) Her second term on EPEC, ends 10/03.

Charles P. Hawkins

Charles P. Hawkins is a Professor in the Department of Aquatic Watershed, and Earth Resource, in the College of Natural Resources at Utah State University. Dr. Hawkins research interests include conservation, management, and restoration of stream and riparian ecosystems; sampling designs and statistical methods applicable to ecological research and biomonitoring; predictive modeling of community composition; the use of aquatic invertebrates to assess and monitor stream, lake, and wetland ecological integrity; and the cumulative effects of watershed alteration on the physical, chemical, and biotic condition of aquatic and riparian ecosystems. He has published extensively on topics in the development and evaluation of predictive models and bio-indicators for measuring the biological integrity of streams. Dr. Hawkins is active with the Ecological Society of America, and past chair of the ESA Aquatic Ecology Section. He has received many grants from the EPA and US Forest Service to study the behavior and performance of different methods of biological assessment for streams. Recent contributions to expert panels include as an invited participant by USEPA for Establishing Reference Conditions for Streams and Rivers in the Western United States in 2001; the Pellston Workshop on Ecological Assessment of Aquatic Resources: Application, Implementation, and Communication in 2000; and as an Invited participant to the US EPA sponsored workshop on Predicting the Effects of Climate Change on Aquatic Ecosystems of the Great Basin and Rocky Mountains in 2000. Dr. Hawkins earned his Ph.D. in Entomology from Oregon State University in 1982. Grant support is reported from two EPA/STAR grants; a cooperative agreement funded by the EPA Office of Science and Technology, and another by Region 8 EPA; and three Cooperative Agreements funded by the USDA Forest Service. His term on EPEC ends 10/04.

Lawrence Master

Lawrence Master is Chief Zoologist for NatureServe, a non-governmental organization dedicated to providing the scientific information needed to conserve biological diversity. Previous to that he was the Chief Zoologist for The Nature Conservancy from 1988 to 2000, and from 1982 to 1996 was also Coordinator/ Zoologist for the Conservancy's Eastern Heritage Task Force. His current research interests include species status assessment and conservation site selection methodologies, and predictive range modeling. Dr. Master recently served on The Heinz Center committee for freshwater indicators. Dr. Master received his Ph.D. in Zoology from the University of Michigan. At present, he reports no funding outside of his employment with NatureServe. He has been reappointed to a second term on EPEC, ending 10/04.

Judith L. Meyer

Judith L. Meyer holds the tenured position of Distinguished Research Professor of Ecology at the University of Georgia, Athens GA. Her principle research interests are energy and materials flux in aquatic ecosystems, particularly streams; nutrient dynamics in streams; dissolved organic carbon in streams; impacts of riparian management practices on streams; urban streams; impacts of excess sediments in streams; and incorporation of metals into riverine food webs. Dr. Meyer has held numerous leadership positions in her profession. She was President of the Ecological Society of America from 1994-1995, and Vice President from 1991-1992. She has been Director for Science of the River Basin Science and Policy Center at the University of Georgia since 1999; is a Fellow of the American Association for the Advancement of Science. She was the U.S. National Representative to the International Association for Theoretical and Applied Limnology from 1992-2001; served on the Governing Boards of the Council of Scientific

Society Presidents from 1994-95; and Water Science and Technology Board, National Academy of Sciences from 1990-1993. Dr. Meyer is the author of over 150 publications on rivers and streams in the peer-reviewed literature. She received her Ph.D. in Ecology from Cornell University 1978. Her funding is through two grants from the National Science Foundation; Georgia Department of Natural Resources; EPA/ORD Water and Watersheds STAR grant; and a contract with The Nature Conservancy. Her term with EPEC ends 10/03.

William Mitsch

William Mitsch is a Professor in the School of Natural Resources at Ohio State University, and Director of the Olentangy River Wetland Research Park. Dr. Mitsch's research interests include wetland ecology and biogeochemistry, the creation and restoration of wetlands, ecosystem modeling and wetland management policy. He is extensively published in the peer reviewed literature and is Editor-in-Chief of the journal Ecological Engineering. Dr. Mitsch received his Ph.D. in Environmental Engineering Sciences (Systems Ecology) from the University of Florida in 1975. He has been reappointed to his second term on the EPEC ending 10/04.

Michael Newman

Michael Newman is a Professor of Marine Science at the College of William and Mary's School of Marine Science. After his postdoctoral studies, he was a research ecologist at the University of Georgia's Savannah River Ecology laboratory. His research emphasizes quantitative methods in ecotoxicology with topics of interest ranging from chemical measurement statistics to QSAR-like models for predicting metal ion effects to contaminant effects on population genetics to methods of predicting community level effects. He has authored approximately 100 publications on these topics including four books, Quantitative Methods in Aquatic Ecotoxicology, Fundamentals of Ecotoxicology, Population Ecotoxicology and Community Ecotoxicology. He also edited several books, Metal Ecotoxicology, Hierarchical Ecotoxicology, Risk Assessment: Logic and Measurement, Coastal and Estuarine Risk Assessment, and Risk Assessment with Time-to-Event Models. Dr. Newman is active in advisory service. He served on OECD, EPA, DOE, NAS, and State environmental regulatory and risk assessment committees and panels. He was one of two U.S. members of an OECD team charged with assessing statistical methods for analyzing toxicity data. Work with DOE involved complex-wide consideration of data quality objectives for risk assessment activities, and various site-specific advisory services to the Savannah River and Hanford sites. He has been a member of numerous EPA teams including the FIFRA ECOFRAM working group, two FIFRA science advisory panels, the Chesapeake Bay Office science advisory board, a FQPA scientific review board, and a joint U.S. EPA-Israeli Water Agency working group. He has reviewed numerous risk assessment documents for EPA and was a consultant to the NAS (Everglades Ecosystem Assessment). Dr. Newman received degrees in zoology from the University of Connecticut (B.A., M.S.) and environmental sciences from Rutgers University (M.S., Ph.D.). He reports financial support for his research from the U.S. National Science Foundation Coastal Ocean Science Education Excellence Funding; The U.K. Department of Environment, Food & Rural Affairs; the U.S. Fish and Wildlife Service; and DuPont. His appointment to the EPEC expires 9/03.

Charles Pittinger

Charles Pittinger is an environmental toxicologist and policy analyst with the Cadmus Group. Fall 2002 he established Cadmus' Cincinnati offices, focusing on product stewardship and the integration of hazard and risk tools for effective risk management. Previously, Dr. Pittinger worked as Director of Research for SoBran, Inc., where his duties included supervising research contracts at three EPA research facilities. For 17 years, Dr. Pittinger worked for The Procter & Gamble Company, principally in environmental risk assessment and management. He has published over 40 scientific articles, book chapters and editorials on subjects including: regulatory and science policy; peer review; ecological risk assessment and management of consumer product chemicals; risk communications; life cycle analysis; sustainability; ecological assessment; environmental mutagenesis; environmental chemistry; aquatic toxicology; and sediment contamination. Dr. Pittinger has served in numerous leadership roles in both the public and private sectors. He was elected to the Society for Environmental Toxicology and Chemistry Board of Directors, served as SETAC's first Congressional Science Fellow with the U.S. House of Representatives Science Committee in 1993-94, and was awarded SETAC's Exceptional Service Award in November 2000. He initiated SETAC's Peer Review Subcommittee and Technical Issue Paper on "Sound Science". He chaired the American Industrial Health Council's Ecological Risk Assessment Committee for 5 years. He has served on the OECD's Risk Assessment Advisory Board, the American Chemistry Council's Ecological Risk and Life-Cycle Analysis Committees; and ASTM Subcommittee E-47. He received his Ph.D. in Zoology from Virginia Polytechnic. The Cadmus group derives its funding from a 3:1 ratio of public to private contractual arrangements. Dr. Pittinger was reappointed to a second term on EPEC ending 9/04.

Terry Young

Terry Young is an independent consultant, and has managed projects for Environmental Defense for more than twenty years. Her recent work includes the design of a system that uses economic incentives, including input pricing and tradable discharge permits, to control farm pollution in California's San Joaquin Valley. Additional work includes the development of ecological indicators to track management and restoration of ecological systems such as the San Francisco estuary. She has published on topics of economic incentives for environmental protection, indicators of ecological integrity, and market solutions for water pollution. Dr. Young is past chair of the EPA's Science Advisory Board, Ecological Processes and Effects Committee and is a past member of the SAB Executive Committee. Dr. Young received her bachelor's degree in chemistry at Yale University and her Ph.D. in Agricultural and Environmental Chemistry from the University of California at Berkeley. Her financial disclosure indicates contractual agreements with environmental non-profit organizations. As recent past chair of the Ecological Processes and Effects Committee she remains on the Committee through 10/03.